

**Notice of Allowability**

Application No.

09/982,475

Applicant(s)

LAKE ET AL.

Examiner

Art Unit

Greg Cunningham

2676

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment received 1/7/2005.
2. ☒ The allowed claim(s) is/are 1-30.
3. ☒ The drawings filed on 17 October 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 1/7/2005
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

### **DETAILED ACTION**

1. This action is responsive to amendment filed 1/7/2005.
2. The disposition of the claims is as follows: claims 1-30 are pending in the application. Claims 1, 7, 11, 17, 21 and 27 are independent claims.

### ***Claim Rejections - 35 USC § 102 103***

3. In view of amended claims, review of cited references and search for additional prior art, 102 and 103 rejections are withdrawn.

### ***Allowable Subject Matter***

4. Claims 1-30 are allowed.
5. The following is an examiner's statement of reasons for allowance:

Applicant's amended independent claims 1, 7, 11, 17, 21 and 27 stand novel over the related prior art. For instance, while the related art of Strandberg et al. (U.S. Patent Number 6,054,999), does make use of an overlapping sphere that is described from a center point in the hip bone of the actor. The angle of incidence of the contemplated camera on the figure to be drawn is determined by adding or subtracting the coordinate values of all of the joints or pivot locations. The angle of incidence of a contemplated light source is determined in a similar manner. The figure's projected shadow is created from another figure on the basis of the light coordinates. The figure is generated as a single-dimension projection which is "folded" in the longitudinal direction of the light in the point of contact of the original figure with the supporting surface.

However does not provide for projecting the virtual bone onto a surface; and generating the shadow on the surface based on a projection of the virtual bone wherein the shadow comprises a shape that is formed on the projection of the virtual bone, and wherein generating comprises forming the shape by distorting at least part of the projection of the virtual bone, as claimed in independent claims 1, 11 and 21; or generating a bounding volume for the virtual bone, the bounding volume having a shape that substantially corresponds to a shape of the virtual bone, wherein generating the bounding volume comprises expanding the virtual bone in three-dimensional space; and generating the shadow by projecting a shape of the bounding volume onto a surface, as claimed in independent claims 7, 17 and 27.

Claims 2-6, 8-10, 12-16, 18-20, 22-26 and 28-30 depend from allowable independent claims 1, 7, 11, 17, 21 and 27 respectively. And therefore are also allowed.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Responses***

7. Responses to this action should be mailed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231. If applicant desires to fax a response, (703) 872-9306 may be used for formal communications.

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Art Unit: 2676

***Inquiries***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greg Cunningham whose telephone number is (703) 308-6109.

The examiner can normally be reached on Monday - Thursday from 7:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella, can be reached on (703) 308-6829.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

*J.F. Cunningham, Examiner*

gfc

February 3, 2005

*Matthew C. Bella*

MATTHEW C. BELLA  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600